

## ABSTRACT OF THE INVENTION

A proximity input detection system for an electronic device. In one embodiment, the present invention utilizes an inductive field sensor to detect a change in a magnetic field when an input device with a coil is within a threshold distance. In another embodiment, the present invention utilizes a capacitive sensor which can locate the position of an electrically conductive object which is within a threshold distance. The capacitive sensor can also be used, for example, as a switch to activate the device if a user picks it up. The present invention allows user inputs to be detected without actually touching the electronic device. The present invention can also be used to detect inputs through intervening non-metallic layers such as a protective cover or another display of the device without using additional input sensors.